



STATE OF TENNESSEE  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
JOHNSON CITY ENVIRONMENTAL FIELD OFFICE  
2305 SILVERDALE ROAD  
JOHNSON CITY, TENNESSEE 37601-2162  
(423) 854-5400 STATEWIDE 1-888-891-8332 FAX (423) 854-5401

July 10, 2015

The Honorable Tommy Casteel, Mayor  
Town of Baileyton  
6530 Horton Highway  
Greeneville, Tennessee 37745

RE: **Compliance Sampling Inspection (CSI)**  
**Sample Results**  
Baileyton Wastewater Treatment Plant (WWTP)  
NPDES Permit No. TN0063932  
Greene County

Dear Mayor Casteel:

A Compliance Sampling Inspection (CSI) was conducted at the Baileyton WWTP by personnel from this Division on June 9-11, 2015.

Enclosed are the sample analytical results from influent and effluent samples collected June 9-10, 2015 for the CSI. The sample results were in compliance with the facility's NPDES permit requirements.

We would like to thank the Baileyton WWTP personnel for their time and assistance during the inspection.

If you have any questions concerning this correspondence, you may contact me at 423/854-5452 or via e-mail at [Sandra.Vance@tn.gov](mailto:Sandra.Vance@tn.gov).

Sincerely,



Sandra K. Vance  
Division of Water Resources  
Johnson City Environmental Field Office

SKV/150315182

Enclosures

cc: Mr. Danny Neely, Operator, Bailey ton WWTP, (via [e-mail-dannyneely550@yahoo.com](mailto:dannyneely550@yahoo.com))  
Ms. Maybelle Sparks, Water-Based Systems, DWR, Nashville (via [e-mail-Maybelle.Sparks@tn.gov](mailto:Maybelle.Sparks@tn.gov))  
Mr. Donovan Mulvaney, Compliance and Enforcement Section, DWR, Nashville  
(via [e-mail-Donovin.Mulvaney@tn.gov](mailto:Donovin.Mulvaney@tn.gov))

## Sandra Vance

---

**From:** Craig Edwards  
**Sent:** Monday, June 22, 2015 5:29 PM  
**To:** Sandra Vance  
**Subject:** Baileyton WWTP Results  
**Attachments:** N13546 (GIN) Vance (DWR-JCEFO).pdf

Please see the attached report.

Craig Edwards  
Inorganic Chemistry Manager  
Tennessee Department of Health, Division of Laboratory Services  
630 Hart Lane, Nashville, TN 37243  
Phone 615-262-6345 Fax 615-262-6393  
E-mail [craig.edwards@tn.gov](mailto:craig.edwards@tn.gov)

The mission of the Tennessee Department of Health is to protect, promote and improve the health and prosperity of people in Tennessee.

CONFIDENTIALITY NOTICE: The information in this email and in any attachments is confidential and may be privileged. If you are not the intended recipient, please destroy this message, delete any copies held on your systems and notify the sender immediately. You should not retain, copy or use this email for any purpose, nor disclose all or any part of its content to any other person. We apologize for any inconvenience this may have caused.



**TENNESSEE**  
DEPARTMENT OF  
**HEALTH**

**DIVISION OF LABORATORY SERVICES**

Jackson Regional Laboratory  
295 Summar Drive  
Jackson, TN 38301  
731-426-0686

Knoxville Regional Laboratory  
2101 Medical Center Way  
Knoxville, TN 37920  
865-549-5201

Shelby County Laboratory  
814 Jefferson Avenue  
Memphis, TN 38105  
901-544-7555

Nashville Central Laboratory  
630 Hart Lane  
Nashville, TN 37243  
615-262-6300

**Sent To:** Greg Denton  
TDEC-DWR  
William R. Snodgrass TN  
Tower  
312 Rosa L. Parks Ave, 11th  
Floor  
Nashville, TN 37243  
Linda Cartwright  
TDEC-DWR  
William R. Snodgrass TN  
Tower  
312 Rosa L. Parks Ave, 11th  
Floor  
Nashville, TN 37243

Sandra Vance  
TDEC-DWR  
Johnson City Field Office  
2305 Silverdale Road  
Johnson City, TN

**Lab ID:** N00013546  
Nashville Central Laboratory

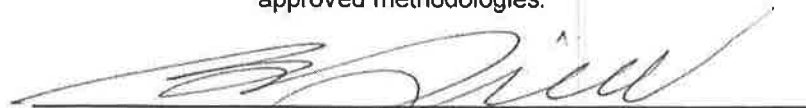
**Sampling Agency:** TDEC: Division of Water Resources

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected



TDEC-DWR.N00013546.1

This is to certify that the following results were determined using  
good laboratory practices and in accordance with federal or state  
approved methodologies.

  
Analytical Supervisor

Lab-Sample Number: N00013546001  
Project Name: Baileyton WWTP  
Sample Description: Influent Composite

**Field Determinations**

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

Sampler Project Name:

Project Site No.:

Station No.:

Date/Time Collected: 06/10/2015 09:48

Sampler's Name: Sandra K Vance

County: GREENE - 30

Sample Matrix: Water

EFO: Johnson City

Sampling Agency: TDEC-DWR

Billing Code: EN00017668

Send Report To: TDEC-DWR

Agency Invoiced: TDEC-DWR

Priority Date:

Date/Time Received: 06/11/2015 09:00

Received By: N Ingalls

TEST: BOD, 5 Day			METHOD: SM 5210 B			
PERFORMING LAB: Nashville						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
BOD	.90	mg/L	2.0	2.0	S Burchfield	6/11/2015

TEST: Residue, Suspended			METHOD: SM 2540D			
PERFORMING LAB: Nashville						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	120	mg/L	10	10	S Burchfield	6/15/2015

Lab-Sample Number: N00013546002  
Project Name: Baileyton WWTP  
Sample Description: Effluent Composite

**Field Determinations**

pH:  
Chlorine, residual:  
Conductivity:  
Temperature:  
Dissolved Oxygen:  
Other:  
Flow:

CFS

Sampler Project Name:

Project Site No.:

Station No.:

Date/Time Collected: 06/10/2015 09:52

Sampler's Name: Sandra K Vance

County: GREENE - 30

Sample Matrix: Water

EFO: Johnson City

Sampling Agency: TDEC-DWR

Billing Code: EN00017668

Send Report To: TDEC-DWR

Agency Invoiced: TDEC-DWR

Priority Date:

Date/Time Received: 06/11/2015 09:00

Received By: N Ingalls

TEST: BOD, 5 Day			METHOD: SM 5210 B			
PERFORMING LAB: Nashville						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
BOD	7.2	mg/L	2.0	2.0	S Burchfield	6/11/2015

TEST: Residue, Suspended		METHOD: SM 2540D				
PERFORMING LAB: Nashville						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	25	mg/L	10	10	S Burchfield	6/15/2015



N00013546-001

PROJECT NAME: Baileyton WWTP		WATERBODY NAME:		* Metals	
STATION NUMBER:		COUNTY: Greene (30)		aluminum, Al	
STREAM MILE:		Greene (30)		antimony, Sb	
DESCRIPTION: Influent Composite				arsenic, As	
LATITUDE:		LONGITUDE:		barium, Ba	
Matrix: Wastewater		Depth:		beryllium, Be	
COLLECTED: DATE 6/10/2015	TIME	0948		boron, B	
SAMPLER'S FULL NAME (printed) Sandra K Vance				cadmium, Cd	
SAMPLING AGENCY: DVR - JCEFO				calcium, Ca	
IF PRIORITY, DATE NEEDED:		BILLING CODE 17668		chromium, Cr	
SEND REPORT TO: Sandra Vance - DVR, Johnson City				cobalt, Co	
* Env. Microbiology		* Gen. Inorganics (cont)		copper, Cu	
coliform, fecal*		ortho-phosphate		iron, Fe	
coliform, total*		silica*		lithium, Li	
strep. fecal*		sulfate*		lead, Pb	
E. Coli*		turbidity*		magnesium, Mg	
Enterococcus*		Preserved, Nutrient		manganese, Mn	
* General Inorganics		COD*		mercury, Hg	
Not Preserved		nitrogen, ammonia		nickel, Ni	
acidity as $\text{CaCO}_3$ *		nitrogen, $\text{NO}_3$ & $\text{NO}_2$		potassium, K	
alkalinity as $\text{CaCO}_3$ *		nitrogen, total Kjeldahl		selenium, Se	
X BOD, 5-day*	nitrogen, total organic	phosphate, total		silver, Ag	
CBOD, 5-day*	SPECIAL PRESERVATION			sodium, Na	
chloride*	cyanide			strontium, Sr	
chromium, hexavalent	oil and grease			thallium, Tl	
color	phenols, total			vanadium, V	
conductivity*	sulfide, total*			zinc, Zn	
fluoride*	TOC*			hardness, Ca as $\text{CaCO}_3$ *	
MBAS*	Dissolved			hardness, total as $\text{CaCO}_3$ *	
nitrogen, nitrate*	TCLP				
nitrogen, nitrite*	Other:			Additional Information	
pH	Asbestos			1. Others present at collection	
residue, dissolved*	bulk asbestos			Danny Neely-Baileyton WWTP	
residue, settleable*	other microscopic			2. Other samples collected	
X residue, suspended*				N/A	
residue, total*				3. Mode of transportation to lab	
				State Vehicle	
				4. Cooler sealed by	
				Sandra K Vance	
				5. Date cooler sealed	
				6/10/15	
				6. Remarks	

\* denotes analyses performed only on water

FIELD DETERMINATIONS

Other Field Parameters:

Conductivity, (uhms)  
Dissolved Oxygen, (mg/L)  
Temperature, (°C)  
pH

Chlorine, residual  
Turbidity, (NTU)  
ORP, (mv)  
Flow Rate

Other Field Parameters:

1. Collected By Sandra K Vance  
Date 6/10/15 Time 0948  
Delivered to FEDEX  
Date 6/10/15 Time 1600  
2. Received by  
Date  
Time  
3. Received by  
Date  
Time  
4. Received in Lab by  
Date  
Time  
5. Received in Lab by  
Date  
Time  
6. Received in Lab by  
Date  
Time  
7. Logged in by  
Date  
Time



N00013546-002

PROJECT NAME: Baileyton WWTP		WATERBODY NAME:		* Metals	
STATION NUMBER:		COUNTY: Greene (30)		aluminum, Al	
STREAM MILE:		Greene (30)		antimony, Sb	
DESCRIPTION: Effluent Composite		arsenic, As		barium, Ba	
LATITUDE:		LONGITUDE:		beryllium, Be	
Matrix: Wastewater		Depth:		boron, B	
COLLECTED: DATE 6/10/2015		TIME: 0952		cadmium, Cd	
SAMPLER'S FULL NAME (printed) Sandra K Vance		BILLING CODE: 17668		calcium, Ca	
SAMPLING AGENCY: DWR-STEED				chromium, Cr	
IF PRIORITY, DATE NEEDED:				cobalt, Co	
SEND REPORT TO: Sandra Vance- DWR, Johnson City				copper, Cu	
* Env. Microbiology		* Gen. Inorganics (cont)		* Other General Inorganics:	
coliform, fecal*		ortho-phosphate		iron, Fe	
coliform, total*		silica*		lithium, Li	
sludge, fecal*		sulfate*		lead, Pb	
E. Coli*		turbidity*		magnesium, Mg	
Enterococcus*		Preserved, Nutrient		manganese, Mn	
		COD*		mercury, Hg	
* General Inorganics		nitrogen, ammonia		nickel, Ni	
Not Preserved		nitrogen, NO <sub>3</sub> & NO <sub>2</sub>		potassium, K	
acidity as CaCO <sub>3</sub> *		nitrogen, total Kjeldahl		selenium, Se	
alkalinity as CaCO <sub>3</sub> *		nitrogen, total organic		silver, Ag	
X BOD, 5-day*		phosphate, total		sodium, Na	
CBOD, 5-day*		SPECIAL PRESERVATION		strontium, Sr	
chloride*		cyanide		thallium, Tl	
chromium, hexavalent		oil and grease		vanadium, V	
color		phenols, total		zinc, Zn	
conductivity*		sulfide, total*		hardness, Ca as CaCO <sub>3</sub> *	
fluoride*		TOC*		hardness, total as CaCO <sub>3</sub> *	
MBAS*				Dissolved	
nitrogen, nitrate*				TCLP	
nitrogen, nitrite*				Other:	
pH		Asbestos		* Other Metals:	
residue, dissolved*		bulk asbestos			
residue, settleable*		other microscopic			
X residue, suspended*					
residue, total*					

\* denotes analyses performed only on water

FIELD DETERMINATIONS		Other Field Parameters:	
Conductivity, (u/mhos)	Chlorine, residual		
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)		
Temperature, (°C)	ORP, (mv)		
pH	Flow Rate		

Information	
Only one chain of custody form is required per sample or point (if all collected at the same time)	
1. Collected By: Sandra K Vance	Date: 6/10/15 Time: 0952
Delivered to: FED EX	Date: 6/10/15 Time: 1600
2. Received by:	Date:
Date:	Time:
Delivered to:	Date:
Date:	Time:
3. Received by:	Date:
Date:	Time:
Delivered to:	Date:
Date:	Time:
4. Received in Lab by:	Date:
Date:	Time:
5. Received in Lab by:	Date:
Date:	Time:
6. Received in Lab by:	Date:
Date:	Time:
Logged in by:	Date:
Date:	Time:

Additional Information

1. Others present at collection: Danny Neely-Baileyton WWTP

2. Other samples collected: N/A

3. Mode of transportation to lab: State Vehicle

4. Cooler sealed by: Sandra K Vance

5. Date cooler sealed: 6/10/15

6. Remarks:



Laboratory Sample Control Log and Manifest								
Sample ID Number	Person Delivering Sample	Agency Submitting Sample	Date Sample Collected	Person Receiving Sample	Date Sample Received	Time Sample Received in Lab	How Sample Transported to Lab	Condition of Sample/Cooler (Sealed, Unsealed, Broken, etc.)
N00013546001-002	FedEx	DWR JCEFO	6/10/15	N. Ingalls / K. Parks	6/11/15	9:00	FedEx	Sealed

[illegible]

## Sandra Vance

---

**From:** Kimberly Storey <Kimberly.Storey@microbac.com>  
**Sent:** Friday, June 12, 2015 3:35 PM  
**To:** Sandra Vance  
**Subject:** Microbac Laboratories, Inc. - Knoxville Project: Total Coliform/E Coli  
**Attachments:** 1509786\_4 TCD\_MSPP\_LTMDL 06 12 2015 1524.pdf

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - OIR-Security. \*\*\*

Hello,

Attached are your E Coli results.

Thank you!

Kim Storey  
Laboratory Director  
Tri Cities Division - TN Operations  
423.926.6385 p  
423.926.6997 f

Microbac Laboratories, Inc.  
2109 W. Market Street, Suite 177  
Johnson City, TN 37604

-----Original Message-----

From: Microbac Laboratories, Inc. Tennessee  
Sent: Friday, June 12, 2015 3:32 PM  
To: Kimberly Storey  
Subject: Microbac Laboratories, Inc. - Knoxville Project: Total Coliform/E Coli

This is an automated email message from Microbac Laboratories, Inc. - Knoxville. If you have any questions about this email or received it in error, please contact us at our Knoxville Division (865.977.1200), Nashville Division (615.242.1480) or Tri-Cities Division (423.926.6385).

CONFIDENTIALITY NOTICE: This e-mail transmission, and any documents, files or previous e-mail messages attached to it may contain confidential information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of any of the information contained in or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender. Please destroy the original transmission and its attachments without reading or saving in any manner. Thank you, Microbac Laboratories, Inc.\*



## CERTIFICATE OF ANALYSIS

Sandra Vance  
TDEC - Division of Water Resources  
2305 Silverdale Road  
Johnson City, TN 37601-2162

Date Reported: 6/12/2015  
Date Received: 6/10/2015  
Cust #: V192  
PO#:

Workorder: 1509786 Project: 14877 E Coli Sampling

Analyte	Result	Units	Qualifier	MDL	MRL	Analyst	Analyzed	Method
---------	--------	-------	-----------	-----	-----	---------	----------	--------

Baileyton WWTP Sampled: 06/10/2015 14:01  
1509786-01 (Water)

### Microbiological Parameters

Analyzed By: Microbac Tri-Cities Division

E. Coli	730	MPN/100 mL	1	1	KS	06/10/2015 16:00	SM9223 B-2004
---------	-----	------------	---	---	----	------------------	---------------

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced wholly or in part for advertising or other purposes without approval from the laboratory.

Microbac Laboratories, Inc.

505 East Broadway Avenue Maryville, TN 37804-5744 | 865-977-1200 p | 865-984-8616 f | www.microbac.com

2109 West Market Street Johnson City, TN 37064 | 423.926.6385 p | 423.926.6997 f | www.microbac.com

2631 Grandview Avenue Nashville, TN 37211 | 615.242.1480 p | 612.242.5522 f | www.microbac.com



## CERTIFICATE OF ANALYSIS

Sandra Vance  
TDEC - Division of Water Resources  
2305 Silverdale Road  
Johnson City, TN 37601-2162

Date Reported: 6/12/2015  
Date Received: 6/10/2015  
Cust #: V192  
PO#:

Workorder: 1509786 Project: 14877 E Coli Sampling

### Certifications

Code	Description	Number	Expires
A2LAB-KNX	ISO 17025 KNX food	3131.01	08/31/2015
A2LAB-NSH	ISO 17025 NSH food	3131.02	06/30/2016
AL	Alabama Department of Environmental Mgmt	41780	12/31/2015
FL	State of Florida NELAC	E87966	06/30/2015
GA	Georgia Dept Natural Resources	980	04/30/2017
KY	Commonwealth of Kentucky	98025	12/31/2015
NCENV	NC Environmental	678	12/31/2015
TN_DW	State of Tennessee	TN02017	04/30/2017
USDA	US Department of Agriculture		12/31/2015

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

Microbac Laboratories, Inc. - Knoxville

Kim Storey, Laboratory Manager - Tri-Cities Division

Thank you for your business. For any feedback, please contact Ashley Morris, at 865-977-1200. You may also contact J Trevor Boyce, President at [president@microbac.com](mailto:president@microbac.com).

As regulatory limits change frequently, Microbac advises the recipient of this report to confirm such limits with the appropriate Federal, state, or local authorities before acting in reliance on the regulatory limits provided.

Microbac Laboratories, Inc. cannot guarantee the confidentiality of any facsimile or e-mail transmittal. The information in this communication is intended for the exclusive use of the addressee. If you are not the intended recipient, you are notified that any disclosure, copying, distributing, or the taking of any action in reliance on the contents of this information is strictly prohibited. If you received this transmission in error, please notify us immediately.

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced wholly or in part for advertising or other purposes without approval from the laboratory.

Microbac Laboratories, Inc.

505 East Broadway Avenue Maryville, TN 37804-5744 | 865-977-1200 p | 865-984-8616 f | [www.microbac.com](http://www.microbac.com)

2109 West Market Street Johnson City, TN 37064 | 423.926.6385 p | 423.926.6997 f | [www.microbac.com](http://www.microbac.com)

2631 Grandview Avenue Nashville, TN 37211 | 615.242.1480 p | 612.242.5522 f | [www.microbac.com](http://www.microbac.com)



## Tri-Cities Division

TCD-SRC-001

## Sample Receipt Checklist

Page 1 of 1

Client Name: IDEA : Total / E. ColiDate/Time Received: 6/10/15 1449Work Order: 1509786No. of Samples: 1Received By: KSNo. of Containers: 1Checklist Completed By: KSCarrier: FedEX ☐UPS ☐Client ☒Field Services ☐Other ☐

Shipping container in good condition? YES ☒ NO ☐  
 Custody seals intact on cooler? YES ☐ NO ☐ Not Present ☐  
 Custody seals intact on samples? YES ☐ NO ☐ Not Present ☐  
 Chain of Custody present? YES ☒ NO ☐  
 Chain of Custody includes proper client information? YES ☒ NO ☐  
 Chain of Custody includes proper collection information and signatures? YES ☒ NO ☐  
 Chain of Custody includes dates and times of sample collection? YES ☒ NO ☐  
 Chain of Custody includes proper sample descriptions? YES ☒ NO ☐  
 Chain of Custody agrees with sample labels? YES ☒ NO ☐  
 Chain of Custody identifies proper sample matrix? YES ☒ NO ☐  
 Chain of Custody identifies proper number of samples? YES ☒ NO ☐  
 Chain of Custody includes required analysis? YES ☒ NO ☐  
 Chain of Custody signed when relinquished and received? YES ☒ NO ☐  
 Samples are in proper containers/bottles? YES ☒ NO ☐  
 Sample containers are intact? YES ☒ NO ☐  
 Sufficient sample volume collected for requested analysis? YES ☒ NO ☐  
 VOA vials for aqueous samples have zero headspace? YES ☒ NO ☐  
 Samples received within holding times? YES ☐ NO ☐ Not Present ☐  
 Samples received on ice? YES ☒ NO ☐  
 Thermal preservation required? YES ☒ NO ☐  
 Sample properly preserved? YES ☒ NO ☐ Temp. 9.1°C

If No, adjusted by? \_\_\_\_\_

Date/Time: \_\_\_\_\_

Is Client Notification Required?

YES ☐ NO ☐

If Yes, contacted by? \_\_\_\_\_

Date: \_\_\_\_\_

If the sample acceptance criteria are lacking in any respect, the receiving personnel should consult with the lab management and either:

Reject the sample and retain all records of communications (written or verbal) with the client regarding the disposition of the rejected samples, or

Completely document any decision to proceed with the sample analysis which fails to meet sample acceptance criteria. A statement that the analytical results may have been compromised shall be included and the final results will be qualified as well by the appropriate section head.

Comments: \_\_\_\_\_